PERMIT NO. HI 0020877

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "Act"); Hawaii Revised Statutes (HRS), Chapter 342D; and Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55, Department of Health (DOH), State of Hawaii,

CITY AND COUNTY OF HONOLULU

(hereinafter "PERMITTEE"),

is authorized to discharge treated wastewater to the receiving waters named Mamala Bay, Pacific Ocean through Outfall Serial No. 001 at Latitude 21°16'47" N, Longitude 158°01'40" W,

from its Honouliuli Wastewater Treatment Plant Located at 91-1000 Geiger Road, Ewa Beach, Hawaii, 96706,

in accordance with the effluent limitations, monitoring requirements and other conditions set forth herein, and in the DOH "Standard NPDES Permit Conditions", that is available on the DOH, Clean Water Branch (CWB) website at http://health.hawaii.gov/cwb/site-map/home/standard-npdes-permit-conditions/.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2013, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit, including the Zone of Mixing, will become effective on2013.
This permit, including the Zone of Mixing, and the authorization to discharge will expire at midnight,, 2013
Signed thisth day of, 2013.
(For) Director of Health

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge treated wastewater from Outfall Serial No. 001. The discharge shall be limited and monitored as specified below.

Effluent	Discharge Limitations ¹				Monitoring Requirements	
Characteristics	Average Monthly	Average Weekly	Maximum Daily	Units	Measurement Frequency	Sample Type
Flow	2	2	2	MGD	Continuous ³	
Bibil O	30	45	2	mg/L		
Biochemical Oxygen	9,508	14,261	2	lbs/day	5/Week ³	24-Hour
Demand (BOD) (5-day @ 20 Deg. C)	The average monthly percent removal shall not be less than 85 percent				5/vveek°	Composite
	30	45	2	mg/L		
Total Suspended Solids	9,508	14,261	2	lbs/day	FAA/1-3	24-Hour
(TSS)	The average monthly percent removal shall not be less than 85 percent				5/Week ³	Composite

- lbs/day = 8.34 * concentration (mg/L) * flow (MGD) The Permittee shall monitor and report the test results.
- Both influent and effluent samples shall be taken, as specified in Part A.2 of this Permit

Effluent		Discharge	Limitations ¹		Monitoring Ro	Monitoring Requirements	
Characteristics	Average Annual	Average Monthly	Maximum Daily	Units	Measurement Frequency	Sample Type	
pH	Not less th	nan 6.0 and than 9.0	not greater	standard units	5/Week ²	Grab	
Chronic Toxicity			Pass ³	TUc	1/Mon h	24-Hour Composite	
Chlordane	0.076 0.024		0 58 0.184	μg/L lbs/day	1/Month ²	24-Hour Composite	
Dieldrin	0.012 0.004		0 27 0.086	μg/L lbs/day	1/Month ²	24-Hour Composite	
DDT4	0.004 0.001		0.14 0.044	μg/L lbs/day	1/Month ²	24-Hour Composite	
Enterococci		5,0405	72,144 ⁶	CFU/100 mL	1/Day ⁷	Grab ⁸	
Total Nitrogen	9	9		μg/L	1/Mon h	24-Hour Composite	
Total Phosphorus	9	9		μg/L	1/Mon h	24-Hour Composite	
Ammonia Nitrogen	9	9	69.7 22,089	μg/L lbs/day	1/Week	24-Hour Composite	
Nitrate + Nitrite Nitrogen	9	9		μg/L	1/Mon h	24-Hour Composite	
Temperature	9	9		°C	1/Week	Grab	

MGD – Million Gallons per Day

Compliance with mass-based effluent limitations shall be determined using the following formula and a design flow of 38 MGD:

Effluent		Discharge	Limitations ¹	Monitoring Requirements		
Characteristics	Average Annual	Average Monthly	Maximum Daily	Units	Measurement Frequency	Sample Type
Total Oil and Grease	9	9	-	mg/L	2/Week ²	24-Hour Composite
Total Petroleum Hydrocarbons	9	9	-	mg/L	2/Week	24-Hour Composite
Fats, Oils, and Grease	9	9	_	mg/L	2/Week	Calculate ¹⁰
Turbidity	9	9		NTU	1/Mon h	Grab
Remaining Pollutants11	9	9		μg/L	2/Year	Grab

Compliance with mass-based effluent limitations shall be determined using the following formula and a design flow of 38 MGD:

lbs/day = 8.34 * concentration (mg/L) * flow (MGD)

- ² Both influent and effluent samples shall be taken, as specified in Part A.2 of this Permit.
- 3 "Pass", As described in Section D.2.h of this Permit.
- 4 DDT shall mean the sum of 4,4'-DDT, 2,4'-DDT, 4,4'-DDE, 2,4-'DDE, 4,4'-DDD, and 2,4'-DDD.
- 5 Effluent limitation expressed as a monthly geometric mean.
- ⁶ Effluent limitation expressed as a single sample maximum.
- Report enterococci as a geometric mean and as a single sample.
- Effluent monitoring shall consist of one grab sample collected between 12 noon and 3:00 pm. Enterococci samples shall be analyzed using Method 1600, Membrane Filter Test Method for Enterococci in Water (EPA 821-R-97-004, May 1997) or ASTM D6503-99.
- The Permittee shall monitor and report the parameter analytical test results.
- ¹⁰ Fats, oils, and grease is equal to the total nitrogen minus total petroleum hydrocarbons.
- 11 The Permittee shall perform semi-annual monitoring on all remaining pollutants listed in Appendix 1 of this permit, except those already specified in the table above.
 - For individual discharge parameters monitored in the influent and effluent, monitoring shall be conducted on the same day.
 - 3. Where practicable, all influent and effluent monitoring shall be arranged so that each day of the calendar week is represented once per month (i.e., for discharge parameters monitoring 5 days per week or 3 days per week), or once per two months (i.e., for discharge parameters monitored once per week). If the Permittee cannot arrange monitoring as prescribed, the Permittee shall provide a written explanation of the reasons with the discharge monitoring report.
 - Effluent monitoring for total nitrogen, total phosphorus, ammonia nitrogen, nitrate plus nitrite nitrogen, and turbidity shall be conducted on the same day that receiving water monitoring for said pollutants is conducted.
 - Samples taken in compliance with the monitoring requirements in Part A of this permit shall be taken at the following locations:
 - a. Influent Monitoring, Monitoring Location INF: All influent samples shall be taken downstream of any additions to the trunk sewer, upstream of any inplant return flows, and prior to treatment where representative samples of the influent can be obtained.

- b. Effluent Monitoring Location, Outfall Serial No. 001: All effluent samples shall be taken downstream from any additions to the facility after all treatment processes, where a representative samples of the final effluent can be obtained, and prior to mixing with the receiving waters.
- 6. Interim Effluent Limitations for Enterococcus
 - a. The Permittee shall maintain compliance with the following interim effluent limitation for enterococcus at Outfall Serial No. 001. The interim effluent limitation for enterococcus shall be effective from the effective date of this permit through January 1, 2024.

	Inte	rim Effluent Limit	Monitoring Requirements		
Parameter	Monthly Geometric Mean	Geometric Single Sample Maximum		Measurement Frequency	Sample Type
Enterococcus	898,087	1,155,089	CFU/100 mL	1/Day	Grab ¹

- Effluent monitoring shall consist of one grab sample collected between 12 noon and 3:00 pm. Enterococci samples shall be analyzed using Method 1600, Membrane Filter Test Method for Enterococci in Water (EPA 821-R-97-004, May 1997) or ASTM D6503-99.
 - b. The Permittee shall implement the following tasks to comply with the final effluent limitations for enterococcus specified in section A.1 of this permit. These tasks shall be completed as soon as reasonably possible, but no later than the compliance dates specified below.

Table 6. Compliance Schedule for Enterococcus

	Task	Compliance Date
1.	The Permittee shall secure funding to evaluate alternatives to comply with the final effluent limitations for enterococcus established in section A.1 of this permit. The Permittee shall submit a report identifying the source of funding to DOH.	January 1, 2015
2.	The Permittee shall identify and evaluate reasonable alternatives to comply with the final effluent limitations for enterococcus established in section A.1 of this permit. The Permittee shall identify effective alternatives to be considered for implementation to comply with final effluent limitations for enterococcus, with consideration to the necessary Facility upgrades to secondary treatment required under the 2010 Consent Decree. The Permittee shall submit a report to DOH which summarizes all reasonable alternatives evaluated and the process of evaluation for each alternative. The report shall provide an assessment on the effectiveness of each chosen alternative to meet the final effluent limitations for enterococcus specified in section A.1 of this permit.	January 1, 2016

Commented [DC1]: Compliance dates picked to be consistent with Consent Decree requirements.

3.	The Permittee shall execute a design contract and issue a notice to proceed with the design of treatment processes needed to comply with the final effluent limitations for enterococcus specified in section A.1 of this permit.	
4.	The Permittee shall execute a construction contract and issue a notice to proceed with construction of all treatment processes and facilities necessary to comply with the final effluent limitations for enterococcus specified in section A.1 of this permit.	January 1, 2019
5.	The Permittee shall complete construc ion of all treatment processes and facilities necessary to comply with the final effluent limitations for enterococcus specified in section A.1 of this permit.	January 1, 2024
6.	The Permittee shall comply with the final effluent limitations for enterococcus specified in Part A.1 of this permit.	June 1, 2024

- c. Fourteen days prior to each interim date, and by January 1st of each year, the Permittee shall notify DOH in writing of its compliance or noncompliance with the above compliance schedules. If the Permittee did not comply with an interim compliance date, the Permittee shall provide the reason for the delay and a proposed schedule to comply with the applicable interim compliance task. The report shall further include status updates regarding compliance with all the specified interim tasks and discuss any known potential issues that may delay achieving compliance with any of the interim tasks or compliance with the final effluent limitation for enterococcus.
- d. If the Permittee fails or refuses to comply with the established compliance schedule, noncompliance shall constitute a violation of this permit for which the Director may modify, revoke and reissue, or terminate permit coverage or take direct enforcement action.

B. WHOLE-EFFLUENT TOXICITY REQUIREMENTS

1. Monitoring Frequency

The Permittee shall conduct monthly chronic toxicity tests on flow weighted 24-hour composite effluent samples, in accordance with the procedures outlined below.

For whole effluent toxicity tests using *Tripneustes gratilla*, if the Permittee experiences difficulty in obtaining gametes or has unacceptable control performance while conducting the sea urchin sperm/fertilization bioassay during a monitoring period, the Permittee shall document its efforts, communicate all attempts to the Director, and report all attempts on the DMR for that monitoring period.

It shall not be considered a non-compliance of the whole effluent toxicity requirements if it can be proven to the Director's satisfaction that the inability in obtaining gametes for testing was due to circumstances beyond the Permittee's control.

Test Species and Methods

The Permittee shall conduct chronic toxicity testing on *T. gratilla* using Hawaiian Collector Urchin, *Tripneustes gratilla* (Hawa'e) Fertilization Test Method 3/16/98 (Adapted by Amy Wagner, EPA Region 9 Laboratory, Richmond, CA from a method developed by George Morrison, EPA, ORD Narragansett, RI and Diane Nacci, Science Applications International Corporation, ORD Narragansett, RI) (EPA/600/R-12/022).

3. Chronic WET Permit Limit

All State waters shall be free from chronic toxicity as measured using the toxicity tests listed in HAR, Section 11-54-10, or other methods specified by the Director. For this discharge, the determination of "Pass" or "Fail" from a single-effluent concentration chronic toxicity test at the applicable IWC using the Test of Significant Toxicity (TST) approach described in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010). For any one chronic toxicity test, the chronic WET permit limit that must be met is rejection of the null hypothesis (Ho):

IWC (percent effluent) mean response ≤ 0.75 × Control mean response.

a. For Outfall Serial No. 001, an IWC of 0.70% shall be used.

PUBLIC NOTICE PERMIT October 2, 2013 Commented [TW2]: The Permittee has had difficulty complying with effluent limitations for T gratilla. They stated in their application that "Given the T. gratilla fertilization test method has not yet been approved and the discrepencies have not been addressed, the City maintains that it is not appropriate to use this standard." They have requested that the species is not required in the permit. The Permittee also requests, that if it is in the permit, it is for monitoring purposes only, and not for determining compliance with effluent limitations.

A test result that rejects this null hypothesis is reported as "Pass" on the DMR form. A test result that does not reject this null hypothesis is reported as "Fail" on the DMR form. To calculate either "Pass" or "Fail", the permittee shall follow the instructions in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document, Appendix A. If a test result is reported as "Fail", then the permittee shall follow Part B.6 (Accelerated Toxicity Testing and TRE/TIE Process) of this permit.

4. Quality Assurance

- a. Quality assurance measures, instructions, and other recommendations and requirements are found in the chronic test methods manual previously referenced. Additional requirements are specified below.
- b. This discharge is subject to a determination of "Pass" or "Fail" from a single-effluent concentration chronic toxicity test at the IWC (for statistical flowchart and procedures, see National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document, Appendix A, Figure A-1). During Step 6 of Appendix A, the Permittee shall use an alpha value of 0.05 for *T. gratilla*. The chronic IWC for Outfall Serial No. 001 is 0.70 percent effluent.
- c. Effluent dilution water and control water shall be receiving water or lab water, as described in the test methods manual Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995). If the dilution water is different from test organism culture water, then a second control using culture water shall also be used. To maintain acceptable salinity when conducting effluent tests with T. gratilla, effluent dilutions shall be adjusted by adding hypersaline brine/GP2 salts and a third control using brine shall also be tested.
- d. If organisms are not cultured in-house, then concurrent testing with a reference toxicant shall be conducted. If organisms are cultured inhouse, then monthly reference toxicant testing is sufficient. Reference toxicant tests and effluent toxicity tests shall be conducted using the same test conditions (e.g., same test duration, etc.).
- e. All multi-concentration reference toxicant test results must be reviewed and reported according to EPA guidance on the evaluation of concentration-response relationships found in Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing (40 CFR 136) (EPA/821/B-00/004, 2000).

- f. If either the reference toxicant or effluent toxicity tests do not meet all test acceptability criteria in the test methods manual, then the Permittee shall resample and re test within 14 calendar days.
- g. If the discharged effluent is chlorinated, then chlorine shall not be removed from the effluent sample prior to toxicity testing without written approval by the Director.
- 5. Initial Investigation TRE Work Plan

Within 90 calendar days of the permit effective date, the Permittee shall prepare and submit to the Director a copy of its Initial Investigation Toxicity Reduction Evaluation (TRE) Work Plan (1-2 pages) for review. This plan shall include steps the Permittee intends to follow if toxicity is measured above the chronic WET permit limit or trigger and shall include the following, at minimum:

- A description of the investigation and evaluation techniques that would be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.
- A description of methods for maximizing in-house treatment system efficiency, good housekeeping practices, and a list of all chemicals used in operations at the facility.
- An indication of who would conduct the TIEs if a Toxicity Identification Evaluation (TIE) is necessary (i.e., an in-house expert or outside contractor).
- d. A flow chart of the workplan steps.
- 6. Accelerated Toxicity Testing and TRE/TIE Process
 - a. If the chronic WET permit limitation is exceeded and the source of toxicity is known (e.g., a temporary plant upset), then the Permittee shall conduct one additional toxicity test using the same species and test method. This toxicity test shall begin within 14 calendar days of receipt of a test result exceeding the chronic WET permit limit. If the additional toxicity test does not exceed the chronic WET permit limitation or trigger, then the Permittee may return to the regular testing frequency.
 - b. If the chronic WET permit limit is exceeded and the source of toxicity is not known, then the Permittee shall conduct six (6) additional toxicity tests using the same species and test method, approximately every two (2) weeks, over a 12 week period. This testing shall begin within

14 calendar days of receipt of a test result exceeding the chronic WET permit limit or trigger. If none of the additional toxicity tests exceed the chronic WET permit limit or trigger, then the Permittee may return to the regular testing frequency.

- c. If one of the additional toxicity tests (in paragraphs Part B.6.a or B.6.b) exceeds the chronic WET permit limitation, then, within 14 calendar days of receipt of this test result, the Permittee shall initiate a TRE using, according to the type of treatment facility, EPA manual *Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants* (EPA/833/B-99/002, 1999) or EPA manual *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations* (EPA/600/2-88/070, 1989). In conjunction, the Permittee shall develop and implement a Detailed TRE Work Plan which shall include the following: further actions undertaken by the Permittee to investigate, identify, and correct the causes of toxicity; actions the Permittee will take to mitigate the effects of the discharge and prevent the recurrence of toxicity; and a schedule for these actions.
- d. The Permittee may initiate a TIE as part of a TRE to identify the causes of toxicity using the same species and test method and, as guidance, EPA manuals: Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures (EPA/600/6-91/003, 1991); Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/080, 1993); Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/600/R-92/081, 1993); and Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document (EPA/600/R-96-054, 1996). Further, the Permittee may be required by the Director to initiate a TIE as part of a TRE.
- e. Prior to conducting a TIE, the Permittee shall submit a TIE plan to the Director. The TIE plan, at a minimum shall:
 - (1) Discuss previous TIE efforts and other available data useful in developing TIE procedures
 - (2) Evaluate available operations and effluent data
 - (3) Identify and discuss site-specific considerations for the TIE effort
 - (4) Include a comprehensive quality control program

- (5) Establish a monitoring program
- (6) Identify test methods and statistical methods to be used for the TIE effort
- (7) Identify the TIE procedures for the baseline toxicity tests and TIE manipulations
- (8) Discuss additional potential analysis that might be helpful in evaluating the causative toxicant(s) or appropriate treatability, such as pollutant scans for toxic effluent
- (9) Discuss the personnel and their qualifications for the team conducting the TIE results interpretation
- (10) Include follow-up procedures for use if the TIE is inconclusive.

The Permittee shall incorporate all comments received from the Director within 14 days of the TIE plan submittal. Within 14 days of the TIE plan submittal, the Permittee shall commence with the TIE.

- 7. Reporting of Chronic Toxicity Monitoring Results
 - a. The Permittee shall report on the DMR for the month in which the toxicity test was conducted: "Pass" or "Fail" (based on the Welch's t-test result), the calculated "percent mean response at IWC", where:
 - percent mean response at IWC = ((Control mean response IWC mean response) ÷ Control mean response)) × 100,
 - and to assist in evaluation of the test result, the standard deviations for the IWC mean response and the Control mean response.
 - b. The Permittee shall submit a full laboratory report for all toxicity testing as an attachment to the DMR for the month in which the toxicity test was conducted. The laboratory report shall contain: the toxicity test results; the dates of sample collection and initiation of each toxicity test; all results for effluent parameters monitored concurrently with the toxicity test(s); and progress reports on TRE/TIE investigations.
 - c. The Permittee shall notify the Director in writing within 5 calendar days of exceedance of the chronic WET permit limitation. This notification shall describe actions the permittee has taken or will take to investigate,

identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s) that no action has been taken.

8. Permit Reopener for Chronic Toxicity

In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include new effluent limitations or permit conditions to address chronic toxicity in the effluent or receiving waterbody, as a result of the discharge; or to implement new, revised, or newly interpreted water quality standards applicable to chronic toxicity.

C. SPECIFIC WATER QUALITY CRITERIA FOR RECREATIONAL WATERS

- The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated in marine recreational water:
 - a. Within 300 meters (1,000 feet) of the shoreline, including natural public bathing or wading areas, enterococci content shall not exceed a geometric mean of 35 CFU per 100 milliliters in not less than five samples which shall be equally spaced to cover a period between 25 and 30 days. No single sample shall exceed the single sample maximum of 104 CFU per 100 milliliters or the site-specific one-sided 75 percent confidence level. Marine recreational waters along sections of the coastline where enterococci content does not exceed the standard, as shown by the geometric mean test described above, shall not be lowered in quality.
 - b. At locations where sampling is less frequent than five samples per 25 to 30 days, no single sample shall exceed the single sample maximum nor shall the geometric mean of these samples taken during the 30 day period exceed 35 CFU per 100 milliliters.
 - c. Raw or inadequately treated sewage, sewage for which the degree of treatment is unknown, or other pollutants of public health significance, as determined by the Director, shall not be present in natural public swimming, bathing, or wading areas. Warning signs shall be posted where human sewage has been identified as temporarily contributing to the enterococcus count.
- 2. Basic Water Quality Criteria Applicable to All Waters
 - a. The discharge shall comply with applicable water quality standards for receiving waters adopted by the DOH under HAR, Chapter 11-54, Water Quality Standards, effective October 21, 2012.
 - b. The discharge shall not interfere with the attainment or maintenance of that water quality which assures protection of public water supplies and the protection and propagation of a balanced indigenous population of shellfish, fish, and wildlife and allows recreational activities in and on the water.
 - c. The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated:
 - (1) All State waters shall be free from pollutants in concentrations which

exceed the acute standards listed in HAR 11-54-4(b)(3). All State waters shall also be free from acute toxicity as measured using the toxicity tests listed in HAR 11-54-11, or other methods specified by the Director.

- (2) All State waters shall be free from pollutants in concentrations which on average during any 24 hour period exceed the chronic standards listed in HAR 11-54(b)(3). All State waters shall also be free from chronic toxicity as measured using the toxicity tests listed in HAR 11-54-10, or other methods specified by the Director.
- (3) All State waters shall be free from pollutants in concentrations which, on average during any 30-day period, exceed the "fish consumption" standards for non-carcinogens in HAR 11-54-4(b)(3). All State waters shall also be free from pollutants in concentrations, which on average during any 12-month period, exceed the "fish consumption" standards for pollutants identified as carcinogens in HAR 11-54-4-(b)(3).
- (4) All waters shall be free of substances attributable to domestic, industrial, or other controllable sources of pollutants, include:
 - Material that will settle to form objectionable sludge or bottom deposits;
 - ii. Floating debris, oil, grease, scum, or other floating materials;
- Substances in amounts sufficient to produce taste in the water or detectable off-flavor in the flesh of fish, or in amounts sufficient to produce objectionable color, turbidity or other conditions in the receiving waters;
- iv. High or low temperatures; biocides; pathogenic organisms; toxic, radioactive, corrosive, or other deleterious substances at levels or in combinations sufficient to be toxic or harmful to human, animal, plant, or aquatic life, or in amounts sufficient to interfere with any beneficial use of the water;
- Substances or conditions or combinations thereof in concentrations which produce undesirable aquatic life; and
- vi. Soil particles resulting from erosion on land involved in earthwork, such as the construction of public works; highways; subdivisions; recreational, commercial, or industrial developments; or the cultivation and management of agricultural lands.

D. ZONE OF INITIAL DILUTION LIMITATIONS AND ZONE OF MIXING LIMITATIONS

1. Zone of Initial Dilution (ZID)

The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated in Class A Wet Open Coastal Waters beyond the ZID:

Parameter	Units	Geometric mean not to exceed the given value	Not to exceed the given value more than 10% of the time	Not to exceed the given value more than 2% of the time	
Light Extinction Coefficient	k units	0.20	0.50	0.85	
Turbidity	NTU	0.50	1.25	2.00	
Dissolved Oxygen	mg/L	Not less than 75 percent saturation, determined as function of ambient water temperature and salinity			

2. Zone of Mixing (ZOM)

The discharge of treated wastewater through Outfall Serial No. 001 shall not cause the following water quality criteria to be violated in Class A Wet Open Coastal Waters beyond the ZOM:

Parameter	Units	Geometric mean not to exceed the given value	Not to exceed the given value more than 10% of the time	Not to exceed the given value more than 2% of the time	
Total Nitrogen	μg/L	150.00	250.00	350.00	
Ammonia Nitrogen	μg/L	3.50	8.50	15.00	
Nitrate Plus Nitrite Nitrogen	μg/L	5.00	14.00	25.00	
Total Phosphorus	μg/L	20.00	40.00	60.00	
Chlorophyll <u>a</u>	μg/L	0.30	0.90	1.75	
рН	standard units	Shall not deviate more than 0.5 units from a va 8.1, except coastal loca ions where and wh freshwater from stream, stormdrain, or ground discharge may depress the pH to a minimum le 7.0.			
Temperature °C Shall not vary more than o				e Celsius from	
Salinity	ppt	Shall not vary more than 10 percent from natural of seasonal changes considering hydrologic input an oceanographic factors.			

It shall be a violation of this permit if the monitoring results exceed the specific criteria for each pollutant listed in the table above at the boundary of or outside the boundary of the ZOM. The specific water quality criteria set forth in the table above may be exceeded within the boundaries of the ZOM and shall not constitute a violation of this permit.

E. RECEIVING WATER MONITORING PROGRAM REQUIREMENTS

The Permittee shall conduct receiving water monitoring at shoreline, nearshore, and offshore stations, as described below.

1. Shoreline Water Quality Monitoring

Shoreline monitoring for enterococci is used to determine compliance with water quality criteria specific for marine recreational waters described in Part C of this permit.

The Permittee shall monitor at the following stations:

Station	Latitude	Longitude
HS1	21° 18' 49"N	157° 59' 29"W
HS2	21° 18' 20"N	158° 01' 45"W
HS3	21° 18' 12"N	158° 02' 42"W
HS4	21° 17' 59"N	158° 04' 03"W

The following water quality parameters shall be sampled:

Parameter	Units	Sample Type	Monitoring Frequency
Enterococci	CFU/100 mL	Surface Grab	5/Month ¹
Visual Observations		Visual	5/Month1,2

- Sampling shall be scheduled to ensure that not more than 5 consecutive days occur between sampling events.
- Wind direction and speed, weather, and sea condition shall be recorded for each day of sampling. At each station, unusual color, turbidity, odor, or other physical evidence of sewage shall be noted on the log sheet.

Monitoring results shall be reported in the monthly DMRs. The DMRs submitted shall include monitoring results and probable sources and an explanation of any exceedances.

2. Nearshore Water Quality Monitoring

Nearshore water quality monitoring data are used to determine compliance with water quality criteria specific for marine recreational waters described in Part C of this permit. Sampling of nearshore stations shall be coordinated with shoreline sampling.

The Permittee shall establish at least four near shore sampling stations (HN1, HN2, HN3, and HN4) within 300 meters of the shoreline.

PUBLIC NOTICE PERMIT October 2, 2013 Commented [TW3]: In an email on October 30, 2012, the Permittee requested new coordinates for the shoreline monitoring stations. In this draft permit, I used the new coordinates.

Commented [TW4]: The Permittee has requested that these stations not be within 2,000 feet of shore because breaking waves make monitoring at these locations impractical. In an email on October 30, 2012, the Permittee requested new coordinates for the nearshore monitoring stations. The old permit required the stations to be within 2,000 ft of shoreline; however, coordinates for the old station were NOT within 2,000 ft of shoreline. Therefore, since the original stations were not within 2,000 ft, I included the new coordinates the Permittee has requested for the nearshore monitoring station.

Commented [DC5]: Alternatively we can do something similar to Wailua where we require them to establish monitoring locations within 2000 feet. Please advise.

The following water quality parameters shall be sampled at Monitoring Locations HN1, HN2, HN3, and HN4:

Parameter	Units	Sample Type	Monitoring Frequency
Visual Observations		Visual	5/Month ^{1,2}
Dissolved Oxygen	mg/L	CDP ³	1/Quarter
рН	standard units	CDP ³	1/Quarter
Temperature	°C	CDP ³	1/Quarter
Salinity	ppt	CDP ³	1/Quarter
Light Extinction Coefficient	k units	Secchi Disc	1/Quarter
Oil and Grease	mg/L	Grab	1/Quarter
Turbidity	NTU	Grab⁴	1/Quarter
Enterococci	CFU/100 mL	Grab	5/Month ^{2,5}

- Wind direction and speed, weather, water current, tidal condition, water color, turbidity, odor and flowing material shall be recorded for each day of sampling. The dates and times of sampling shall also be reported.
- Sampling shall be scheduled to ensure that not more than 5 consecutive days occur between sampling events.
- 3 A continuous depth profile (CDP) is the presentation of a water quality parameter concentrations at distinct intervals throughout the water column. The parameter shall be measured on a CDP basis, from 1 meter below the surface to 2 meter above the bottom of the bottom at 2 meter intervals.
- Samples shall be collected at each station at 1 meter below the surface, mid-depth, and 2 meters above the bottom.
- 5 Enterococci samples shall be analyzed using Method 1600, Membrane Filter Test Method for Enterococci in Water (EPA 821-R-97-004, May 1997) or ASTM D6503-099.

Inability to conduct nearshore monitoring due to inclement weather or hazardous conditions which may endanger the lives of the facility's personnel shall not constitute a violation of this permit.

Monitoring results shall be reported in monthly DMRs for transparency, visual observations, and enterococcus and quarterly DMRs for all other parameters with quarterly monitoring requirements. The DMRs submitted shall include monitoring results and probable sources and an explanation of any exceedances.

3. Offshore Water Quality Monitoring

Offshore water quality monitoring data are used to determine compliance with State water quality standards. Offshore stations shall be located using a global positioning device (GPS) which affords a high degree of accuracy and precision that allow reoccupation of the station within ±6 meters.

The Permittee shall monitor at the following stations:

Station	Latitude	Longitude
HB1	21° 16' 51"N	157° 59' 21"W
HB2	21° 17' 01"N	158° 01' 21"W
HB3	21° 16' 52"N	158° 01' 29"W
HB4	21° 16' 47"N	158° 01' 39"W
HB5	21° 16' 55"N	158° 01' 32"W
HB6	21° 16' 33"N	158° 01' 48"W
HB7	21° 15' 32"N	158° 03' 14"W
HM1	21° 17' 01"N	158° 01' 37"W
HM2	21° 17' 05"N	158° 01' 15"W
HM3	21° 16' 46"N	158° 01' 24"W
HM4	21° 16' 41"N	158° 01' 45"W
HZ	21° 16' 54"N	158° 01' 31"W

The following water quality parameters shall be sampled at all offshore monitoring locations unless otherwise specified:

Parameter	Units	Sample Type	Monitoring Frequency
Visual Observations		Visual	1/Quarter1
Dissolved Oxygen	mg/L	CDP1	1/Quarter
рН	standard units	CDP ²	1/Quarter
Temperature	°C	CDP ²	1/Quarter
Salinity	ppt	CDP ²	1/Quarter
Light Extinction Coefficient	k units	Secchi Disc	1/Quarter
Turbidity	NTU	Grab ³	1/Quarter
Total Nitrogen	μg/L	Grab ³	1/Quarter
Ammonia Nitrogen	μg/L	Grab ³	1/Quarter
Nitrate + Nitrite Nitrogen	μg/L	Grab ³	1/Quarter
Total Phosphorus	μg/L	Grab ³	1/Quarter
Chlorophyll <u>a</u>	μg/L	Grab ³	1/Quarter
Enterococci	CFU/100 mL	Grab ³	1/Quarter⁵
Oil and Grease	mg/L	Grab⁴	1/Quarter

Commented [TW6]: In an email on October 30, 2012, the Permittee requested new coordinates for the offshore monitoring stations. In this draft permit, I used the new coordinates. Additionally, for sediment control monitoring, the Permittee stated in the same email that due to an algae problem at the sea floor at stations IB1 and HB7, the Permittee is requesting designation of two new control stations for the sediment monitoring.

- Wind direction and speed, weather, water current, tidal condition, water color, turbidity, odor and flowing material shall be recorded for each day of sampling. The dates and times of sampling shall also be reported.
- A continuous depth profile (CDP) is a plot of depth vs. a water quality parameter. Parameter shall be measured on a CDP basis, from 1 meter below the surface to 2 meter above the bottom of the bottom at 2 meter intervals.
- 3 Samples shall be collected at each station at 1 meter below the surface, middepth, and 2 meters above the bottom.
- Monitoring required at Monitoring Stations HZ, HB1, HB2, HB3, HB4, HB5, HB6, and HB7.
- 5 Enterococci samples shall be analyzed using Method 1600, Membrane Filter Test Method for Enterococci in Water (EPA 821-R-97-004, May 1997).

Monitoring results shall be reported in quarterly DMRs for all parameters with quarterly monitoring requirements. The DMRs submitted shall include monitoring results and probable sources and an explanation of any exceedances.

4. Nearshore and Offshore Sediment Monitoring

The Permittee shall monitor nearshore sediments and offshore sediments for chemistry and benthic organisms at the stations listed in the table below. The stations correspond to the offshore stations and coordinates in Part E.3. The Permittee shall include replicates for sediment chemistry and benthic monitoring. The number of samples required at each station is as follows:

Station		Number of Samples at Each Station (including Replicates)	
		Chemistry	Benthic Organisms
	HZ	3	3
	HB1	3	3
	HB2	3	3
Offshore	HB3	3	3
	HB4	3	3
	HB6	3	3
	HB7	3	3

Each station shall be monitored in August or September annually for the parameters indicated in Parts E.4.a and E.4.b of this permit. Sediment and biological samples shall be collected and processed in accordance with protocols found in Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods (EPA 430/9-86-004 1987).

a. Sediment Chemistry

PUBLIC NOTICE PERMIT October 2, 2013 Commented [TW7]: The Permittee requests that we do not retain these monitoring requirements. If we do retain it, they want us to have control stations HB1 and HB7 moved for sediment monitoring because the of widespread algae growth on the ocean floor making it difficult to sample.

Commented [TW8]: Previous permit required 5 replicate samples for benthic organisms the first year and then the number of replicate samples may be changed in subsequent sampling. Do we want to retain that in the proposed permit?

Sediment shall be collected using a 0.16 square meter modified van Veen grab sampler. Sediment samples for chemical analyses shall be taken from the top 2 centimeters of the grab sample and analyzed for the parameters listed below, using methods developed by National Oceanic and Atmospheric Administration's (NOAA) *National Status and Trends Program for Marine Environmental Quality.* For metals, the Permittee shall attempt to achieve target detection limits five times lower than the Effects Range Low (ERL), or the concentration at which 10 percent of the studies show effects. Analytical results shall be reported on a dry weight basis.

Parameter	Units
Grain Size	phi
Total Organic Carbon	percent
	EH; mv
Oxidation-reduction potential	
Total Nitrogen	mg/kg
Acid volatile sulfides	mg/kg
Metals	
Aluminum	mg/kg
Arsenic	mg/kg
Beryllium	mg/kg
Cadmium	mg/kg
Chromium	mg/kg
Copper	mg/kg
Iron	mg/kg
Lead	mg/kg
Mercury	mg/kg
Nickel	mg/kg
Selenium	mg/kg
Silver	mg/kg
Zinc	mg/kg
DDTs	
2,4'-DDT	μg/kg
4,4'-DDT	μg/kg
2,4'-DDD	μg/kg
4,4'-DDD	μg/kg
2,4'-DDE	μg/kg
4,4'-DDE	μg/kg
Chlorinated Pesticides other than	
Aldrin	μg/kg

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Parameter	Units
Alpha-chlordane	μg/kg
Dieldrin	μg/kg
Endrin	μg/kg
Heptachlor	μg/kg
Heptachlor epoxide	μg/kg
Hexachlorobenzene	μg/kg
Lindane (gamma-BHC)	μg/kg
Mirex	μg/kg
Trans-Nonachlor	μg/kg
PCBs	
PCB Congeners ¹	μg/kg
Polycyclic Aromatic Hydrocarbons	(PAHs)
Acenaphthene	μg/kg
Anthracene	μg/kg
Benz(a)anthracene	μg/kg
Benzo(a)pyrene	μg/kg
Benzo(b)fluoranthene	μg/kg
Benzo(e)pyrene	μg/kg
Benzo(g,h,i)perylene	μg/kg
Benzo(k)fluoranthene	μg/kg
Biphenyl	μg/kg
Chrysene	μg/kg
Dibenzo(a,h)anthracene	μg/kg
2,6-dimethylnaphthalene	μg/kg
Fluoranthene	μg/kg
C ₁ -Fluoranthene	μg/kg
Fluorene	μg/kg
Indeno(1,2,3-c,d)pyrene	μg/kg
2-methylphenanthrene	μg/kg
Naphthalene	μg/kg
Perylene	μg/kg
Phenanthrene	μg/kg
Pyrene	μg/kg
2,3,5-trimethylnaphthalene	μg/kg

Parameter	Units
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PCB congeners include PCB Nos. 8, 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 195, 201, 206, and 209.

b. Benthic Infauna Analyses

Sediment shall be collected using a 0.16 square meters modified van Veen grab sampler. A 7.6 centimeter diameter subsample, to a depth of 5 centimeters, shall be taken from each grab and sieved for benthic organisms, using a 0.5 millimeter mesh screen. Organisms retained on the sieve shall be fixed in 15 percent buffered formalin, and transferred to 70 percent ethanol within two to seven days for storage.

All organisms retained on the sieve shall be counted and identified to the lowest taxon possible. Analyses of community parameters shall include, but not be limited to, the following: number of species, number of individuals per species, number of species per 0.1 square meter, total number of species per station, total numerical abundance, and biomass. Biomass shall be estimated from wet weight measurements for the following taxa: molluscs, echinoderms, polychaetes, crustaceans, and other taxa.

Community parameters and statistical analyses shall be presented, along with the data and graphical displays, to illustrate benthic community changes. Statistical analyses should include, but not be limited to, mean, standard deviation, and 95 percent confidence interval; multivariate analyses, including cluster analysis, ordination, and regression, may also be conducted. Additional analyses shall be conducted, as appropriate, to elucidate spatial and temporal trends in the data.

5. Fish Monitoring

The Permittee shall conduct chemical analyses of fish tissue at three offshore stations identified as follows. Each station shall be sampled annually in August or September by hook-and-line, or by setting baited lines or traps.

Station	Location	Latitude	Longitude
Outfall-001	In the immediate vicinity of the outfall, centered on the given coordinates	21°17'00"N	158°01'50"W
FR1-B	55-60' of water	21°17'25.6"N	158°06'57.3"W
FR2-B	100' of water	21°19'37.5"N	158°08'29.4"W

Fish shall be identified to the lowest taxon possible. Analyses of fish parameters shall include: number of individuals per species, standard length, and wet weight (grams). Abnormalities and disease symptoms shall be recorded and itemized (e.g., fin erosion, internal and external lesions, tumors); color photographs showing abnormalities of affected fish may be taken and submitted as part of the annual report. Until more appropriate and precise means become available, fish catch statistics from the State of Hawaii, Division of Fish and Game, shall be reviewed on an annual basis to detect changes in fish abundance and distribution in the vicinity of the facility ocean outfall. A summary and findings of this review shall be reported in the annual report.

During year one of this permit, the Permittee shall select two target fish species for chemical analyses of muscle tissue; these species shall continue to be analyzed in years two through five of this permit. The two fish species shall be somewhat sedentary (e.g., bridled triggerfish, taape, opelu, akule) and representative of fish caught by recreational and commercial fishermen near the facility's outfall. To minimize multiple source uncertainties, migratory pelagic species which feed over large areas (e.g., many kilometers) shall not be selected. For selected species, chemical analyses shall be performed annually on a composite sample of standardized muscle tissue collected from at least three individuals. Chemical analyses shall be performed for pollutants specified in the table below. After the third year of testing, the EPA and DOH may reduce the number of congeners tested to include only those congeners detected in samples tested during years one through three of this permit.

Parameter	Units
Total Lipid	percent
Metals	
Arsenic	mg/kg
Mercury	mg/kg
DDTs	
2,4'-DDT	μg/kg
4,4'-DDT	μg/kg
2,4'-DDD	μg/kg
4,4'-DDD	μg/kg
2,4'-DDE	μg/kg
4,4'-DDE	μg/kg
Chlorinated Pesticides other than D	DT
Aldrin	μg/kg
Alpha-chlordane	μg/kg

PUBLIC NOTICE PERMIT October 2, 2013 Commented [TW9]: This language was used in Sand Island. Should we use it here as well?

Parameter	Units
Dieldrin	μg/kg
Endrin	μg/kg
Heptachlor	μg/kg
Heptachlor epoxide	μg/kg
Hexachlorobenzene	μg/kg
Lindane (gamma-BHC)	μg/kg
Mirex	μg/kg
Trans-Nonachlor	μg/kg
PCBs	
PCB Congeners ¹	μg/kg
Polycyclic Aromatic Hydrocarbons	(PAHs)
Acenaphthene	μg/kg
Anthracene	μg/kg
Benz(a)anthracene	μg/kg
Benzo(a)pyrene	μg/kg
Benzo(b)fluoranthene	μg/kg
Benzo(e)pyrene	μg/kg
Benzo(g,h,i)perylene	μg/kg
Benzo(k)fluoranthene	μg/kg
Biphenyl	μg/kg
Chrysene	μg/kg
Dibenzo(a,h)anthracene	μg/kg
2,6-dimethylnaphthalene	μg/kg
Fluoranthene	μg/kg
C ₁ -Fluoranthene	μg/kg
Fluorene	μg/kg
Indeno(1,2,3-c,d)pyrene	μg/kg
2-methylphenanthrene	μg/kg
Naphthalene	μg/kg
Perylene	μg/kg
Phenanthrene	μg/kg
Pyrene	μg/kg
2,3,5-trimethylnaphthalene	μg/kg

PCB congeners include PCB Nos. 8, 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 195, 201, 206, and 209.

6. ZOM Dilution Analysis Study

- a. Within 3 years of the effective date of this permit, the Permittee shall conduct and submit to DOH a dilution analysis study which identifies minimum and average dilution at the edge of the ZOM (Stations HM1 through HM4). In addition, the ZOM Dilution Analysis Study shall verify the presence or absence of assimilative capacity for ammonia nitrogen based on receiving water data at and beyond the edge of the ZOM.
 - i. Within 180 days of the effective date of this permit, the Permittee shall submit a ZOM Dilution Analysis Study Work Plan to DOH. The Work Plan shall provide a detailed discussion regarding the method by which minimum and average dilution shall be evaluated and specify a time frame for the analysis. In addition, the Work Plan shall include a discussion of the hydraulics of the ZOM, significant variables that impact available dilution within the ZOM, identify data necessary to complete the dilution study, include a plan to acquire necessary data, and identify any known potential challenges to completing the study.

The Permittee shall incorporate all comments from DOH into the Work Plan. Within 9 months of the effective date of this permit, the Permittee shall implement the Work Plan with any necessary revisions.

- ii. Within 2 years of the effective date of this permit, the Permittee shall provide an update to DOH on the status of the dilution analysis and provide any preliminary data and results available at that time.
- iii. Within 3 years of the effective date of this permit, the Permittee shall submit a final report to DOH which; summarizes the method and results of the ZOM Dilution Analysis Study, identifies and supports a minimum and annual average dilution at the edge of the ZOM, and verifies the presence or absence of assimilative capacity for ammonia nitrogen.
- b. In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include new effluent limitations or permit conditions based on information provided from the ZOM Dilution Analysis Study; or to implement new, revised, or newly interpreted water quality standards applicable to HAR Chapter 11-54-6 water quality standards.

7. Annual Receiving Water Monitoring Programs

The Permittee shall submit an annual receiving water monitoring report by March 31 each year. The annual receiving water monitoring reports shall

summarize and discuss monitoring results for the previous year. Reports shall include, at minimum:

- a. A description of climatic and receiving water characteristics at the time of sampling (weather observations, floating debris, discoloration, wind speed and direction, swell or wave action, time of sampling, tide height, etc.).
- b. A description of sampling stations, including differences unique to each station (e.g., station location, sediment grain size, distribution of bottom sediment, rocks, and shell litter, calcareous worm tubes, etc.).
- c. A record shall be kept of the individual(s) performing sampling or measurements. A description of the sample collection and preservation procedures used in the survey shall be included in the report.
- d. A description of methods used for laboratory analyses. Variations in procedure may be acceptable, but any such changes shall be reported to the EPA and DOH, before implementation. All such variations must be reported with the analytical results.
- e. An in-depth discussion of survey results. All tabulations and computations shall be explained.

7. Protocols and Methods

The following protocols and methods shall be used for sample collection and analyses:

Protocols and Methods for Sample Collection and Analyses		
Water quality samples (collection and process); sediment and biological samples	Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods (EPA 430/9-86- 004, 1987)	
Sediment samples handling	Procedures for Handling and Chemical Analysis of Sediment and Water Samples (EPA/CE-81-1, 1981)	
Sediment Analysis	NOAA's National Status Trends Program for Marine Environmental Quality Methods for the Determination of Metals in Environmental Samples	
	Test Methods for Evaluating Solid Waste, SW- 846, Method 8270	
Benthic community structure analysis	Recommended Biological Indices for 301(h) Monitoring Programs (EPA 430/9-86-002, 1987)	

	Bioaccumulation Monitoring Guidance: (4) Analytical Methods for USEPA Priority Pollutants and 301(h) Pesticides in Tissues from Estuarine and Marine Organisms (Tetra Tech, 1986)
Fish tissue analysis	NOAA's National Status and Trends Program for Marine Environmental Quality
	Methods for the Determination of Metals in Environmental Samples
	Test Methods for Evaluating Solid Waste, SW- 846

F. WASTEWATER POLLUTION PREVENTION PROGRAM

The Permittee shall submit an annual report summarizing critical parameters which impact the operations of the facility to the DOH by March 31 of each year, unless otherwise instructed by the DOH. The report shall include, at a minimum, an evaluation of critical parameters, including the following:

- 1. Flow;
- 2. BOD₅ loading;
- 3. TSS loading;
- 4. Toxic pollutants or impacts of septic wastes;
- 5. Growth potential of the service area;
- 6. Impact of new regulations;
- 7. Bypasses and overflows;
- 8. Effectiveness and condition of the collection system; and,
- 9. Treatment capacity based on additional information.

G. PRETREATMENT REQUIREMENTS

- 1. The Permittee shall be responsible and liable for the performance of all Control Authority pretreatment requirements contained in 40 CFR 403, including any subsequent regulatory revisions. Where 40 CFR 403 or subsequent revisions place mandatory actions upon the Permittee as Control Authority but do not specify a timetable for completion of the actions, the Permittee shall complete the actions within 6 months from the issuance date of this permit or the effective date of the 40 CFR 403 revisions, whichever comes later. For violations of pretreatment requirements, the Permittee shall be subject to enforcement actions, penalties, fines, and other remedies by the EPA or other appropriate parties, as provided in the CWA. The DOH and EPA may initiate enforcement action against a nondomestic user for noncompliance with applicable standards and requirements, as provided in the CWA.
- 2. The Permittee shall enforce the requirements promulgated under Sections 307(b), 307(c), 307(d), and 402(b) of the CWA with timely, appropriate, and effective enforcement actions. The Permittee shall cause nondomestic users subject to the federal categorical standards to achieve compliance no later than the date specified in those requirements or, in the case of a new nondomestic user, upon commencement of the discharge.
- The Permittee shall perform the pretreatment functions as required in 40 CFR 403 including, but not limited to:
 - Implement the necessary legal authorities to fully implement the pretreatment regulations as provided in 40 CFR 403.8(f)(1);
 - Enforce the national pretreatment standards for prohibited discharges and categorical standards as provided in 40 CFR 403.5 and 403.6, respectively;
 - Implement the pragmatic functions as provided in 40 CFR 403.8(f)(2); and
 - d. Provide the requisite funding and personnel to implement the pretreatment program as provided in 40 CFR 403.8(f)(3).
- 4. The Permittee shall comply with the urban area pretreatment requirements under Section 301(h) of the CWA and the implementing requirements in 40 CFR 125. The Permittee's actions to comply shall include the following:
 - a. During each calendar year, maintaining a rate of significant noncompliance, as defined in 40 CFR 403.8(f)(2)(vii), for significant industrial users (SIUs) of no more than 15 percent of the total number of significant industrial users.

PUBLIC NOTICE PERMIT October 2, 2013 Commented [TW10]: Pretreatment language came from Waianae WWTP as requested by Darryl Lum. Additional language for local limits and animal and vegetable oil has been retained from the previous permit.

The 15 percent noncompliance criteria includes only significant industrial users that are in significant noncompliance and which have not received at least a second level formal enforcement action from the Permittee, in accordance with the Permittee's Enforcement Response Plan. A second level enforcement action is an Administrative Notice and Order to achieve timely compliance.

Part G.4.d of this permit contains a schedule for evaluating local limits. As a consequence of any new local limits, some significant industrial users may need time to come into compliance with these new limits. In any such cases, the Permittee shall issue a Compliance Findings of Violation and Order. The Order shall contain a schedule for achieving compliance with the new local limits. Significant industrial users receiving such Orders will not be included in the 15 percent noncompliance criteria.

- Providing the annual analysis regarding local limits required in 40 CFR 125.65(c)(1)(iii); and,
- c. Evaluating local limits and developing any needed local limits as applicable pretreatment requirements, in accordance with 40 CFR 125.65. The local limits evaluation shall include, but is not limited to:
 - Identifying pollutants of concern. This evaluation shall address each toxic pollutant introduced by an industrial Permittee as required under 40 CFR 125.65:
 - (2) Characterizing industrial, commercial, and residential toxic pollutant loadings to the treatment plant;
 - (3) Developing allowable headworks loadings and an allocation strategy for pollutants requiring local limits; and,
 - (4) Developing narrative or numeric local limits when technically justified.
- d. The Permittee shall comply with Part G.4.c of this permit according to the following schedule:
 - (1) Submit an interim progress report to the DOH and EPA six months after the permit effective date;
 - (2) Submit a local limits development report to the DOH and EPA 12 months after the permit effective date; and.

- (3) Complete the reissuance of any SIU permits necessary to implement local limits within 6 months after local limits approval by the DOH and EPA.
- The Permittee shall submit and implement a BMP-based program for controlling animal and vegetable oil and grease within 180 days of the adoption of this permit.
- 6. The Permittee shall submit annually to the DOH and EPA a report describing its pretreatment activities over the previous year. In the event that the Permittee is not in compliance with any conditions or requirements of this permit, then the Permittee shall also include the reasons for noncompliance and state how and when the Permittee shall comply with such conditions and requirements. This annual report shall cover operations from January 1 through December 31, and is due on March 31 of the following year. The report shall contain, but not be limited to, the following information:
 - a. A summary of analytical results from representative, flow proportioned, 24-hour composite sampling of the facility's influent and effluent for those pollutants the EPA has identified under Section 307(a) of the Clean Water Act which are known or suspected to be discharged by nondomestic users. This will consist of wastewater sampling and analysis in accordance with the minimum frequency of analysis stated in Part A of this permit. The Permittee is not required to sample and analyze for asbestos. Sludge monitoring is covered under Part H of this permit. The Permittee shall also provide any influent or effluent monitoring data for nonpriority pollutants which the Permittee believes may be causing or contributing to interference or pass through. Sampling and analysis shall be performed with the techniques prescribed in 40 CFR 136;
 - b. A discussion of upset, interference, or pass through incidents, if any, at the treatment plant which the Permittee knows or suspects were caused by nondomestic users of the collection system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken, and, if known, the name and address of the nondomestic user(s) responsible. The discussion shall also include a review of the applicable pollutant limitations to determine whether any additional limitations, or changes to existing requirements, may be necessary to prevent interference or pass through;
 - c. An updated list of the Permittee's SIUs including their names and addresses, and a list of deletions, additions, and SIU name changes keyed to the previously submitted list. The Permittee shall provide a brief explanation for each change. The list shall identify the SIUs subject to federal categorical standards by specifying which set(s) of standards are

PUBLIC NOTICE PERMIT October 2, 2013 Commented [TW11]: This was included in Sand Island and retained from the previous Sand Island permit. It is not in the current Honouliuli permit. Should we include it as a new requirement of this permit?

applicable to the SIU. The list shall also indicate which SIUs are subject to local limitations;

- d. The Permittee shall characterize the compliance status of each SIU by providing a list or table which includes the following information:
 - (1) Name of the SIU;
 - (2) Category, if subject to federal categorical standards;
 - (3) The type of wastewater treatment or control processes in place;
 - (4) The number of samples taken by the Permittee during the year;
 - (5) The number of samples taken by the SIU during the year;
 - (6) For an SIU subject to discharge requirements for total toxic organics, whether all required certifications were provided;
 - (7) A list of the standards violated during the year. Identify whether the violations were for categorical standards or local limits;
 - (8) Whether the facility is in significant noncompliance as defined in 40 CFR 403.8(f)(2)(vii) at any time during the year; and,
 - (9) Summary of enforcement or other actions taken during the year to return the SIU to compliance. Describe the type of action, final compliance date, and the amount of fines and penalties collected, if any. Describe any proposed actions for bringing the SIU into compliance.
- e. A brief description of any programs the Permittee implements to reduce pollutants from nondomestic users that are not classified as SIUs.
- f. A brief description of any significant changes in operating the pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's administrative structure, local limits, monitoring program or monitoring frequencies, legal authority, enforcement policy, funding levels, or staffing levels;
- g. A summary of the annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases; and,

- h. A summary of activities to involve and inform the public of the program including a copy of the newspaper notice, if any, required by 40 CFR 403.8(f)(2)(vii).
- 7. The Permittee shall submit a semi-annual SIU compliance status report to the DOH and EPA. This report shall cover the first 6 months of the calendar year and shall be due on July 31st and December 31st of the same year. The report shall contain the following:
 - a. The name and address of all SIUs which violated any discharge or reporting requirements during the report period;
 - b. A description of the violations including whether any discharge violations were for categorical standards or local limits;
 - A description of the enforcement or other actions that were taken to remedy the noncompliance; and,
 - d. The status of active enforcement and other actions taken in response to SIU noncompliance identified in previous reports.
 - e. Implementation and compliance status of the BMP-based animal and vegetable oil and grease control program.

H. SLUDGE/BIOSOLIDS REQUIREMENTS

- 1. Sludge Use/Disposal Requirements
 - a. General Conditions and Requirements
 - (1) Acceptable Sludge Use/Disposal Practices
 - (a) The Permittee shall dispose of all sludge generated at the facility at a municipal solid waste landfill, at a sludge surface disposal site, by land application, or by transferring the sludge to another party for further treatment, use, or disposal in accordance with all applicable portions of 40 CFR Parts 257, 258, 503 and HAR, Chapters 11-58.1 and 11-62.
 - (b) Storage of sludge for over two years from the time it is generated shall be considered to be surface disposal. The storage site shall meet all the requirements of a surface disposal site under 40 CFR 503 Subpart C and HAR, Chapters 11-58.1 and 11-62. If the Permittee desires to store sludge for longer periods of time prior to final disposal, the Permittee shall submit a written request to the EPA Regional Sludge Coordinator and Director containing the information required under 40 CFR Section 503.20(b).
 - (c) The Permittee shall dispose of sludge containing more than 50 mg/kg of PCBs in accordance with 40 CFR 761.
 - (d) If the Permittee desires to dispose of sludge using a method not listed above, the Permittee shall submit a request for permit modification to EPA Regional Sludge Coordinator and Director 180 calendar days prior to the commencement of the alternate disposal practice.
 - (2) Duty to Mitigate
 - (a) The Permittee shall be responsible for ensuring the following:
 - (i) All sludge produced at its facility is used/disposed of in accordance with 40 CFR Parts 257, 258, 503, and HAR, Chapters 11-58.1 and 11-62, whether the Permittee uses/disposes of the sludge itself or transfers it to another party for further treatment, use, or disposal.

- (ii) Subsequent preparers, appliers, or disposers of the sludge are informed of the requirements under 40 CFR Parts 257, 258, 503, and HAR, Chapters 11-58.1 and 11-62.
- (iii) Sludge is not allowed to enter State waters, or to contaminate an underground drinking water source.
- (iv) Sludge treatment, storage, use, and disposal do not create a public nuisance.
- (v) Haulers who ship non-Class A sludge off-site for additional treatment, use, or disposal take all necessary measures to keep sludge contained.
- (b) The Permittee shall take all reasonable steps to prevent or minimize any sludge use or disposal which has a likelihood of adversely affecting human health or the environment.

(3) Other Conditions

- (a) The Director may promptly modify or revoke and reissue this permit to incorporate any applicable standard for sewage sludge use or disposal promulgated under the Act Section 405(d), or adopted under HRS, Chapter 342D, or HAR, Chapter 11-62, if the standard is more stringent than the standard in this permit or covers a pollutant or practice not covered in this permit.
- (b) The sludge requirements in this part are supplemental to the other conditions of this permit. In the event of a conflict, those requirements more protective of the environment shall apply.
- (c) The requirements in 40 CFR 503 are enforceable by the EPA independently of being included in this permit.
- b. Sludge Limitations and Monitoring Requirements
 - (1) Sludge shall be limited and monitored by the Permittee as specified below:
 - (a) Sludge Disposed of in Municipal Solid Waste Landfills

Monitoring Parameter/Test Procedures	Limitation	Monitoring Frequency
Paint Filter Test (SW-486, EPA Method 9095)	No "Free Liquids" ¹	1/Year

Monitoring Parameter/Test Procedures	Limitation	Monitoring Frequency
Toxicity Characteristic Leaching Procedure (TCLP) Test ²	2	1/Year
Priority Pollutants ³	N/A	1/Year ⁴

- N/A = Not Applicable

 "Free Liquids" as defined in EPA Method 9095.

 The parameters to be tested by the TCLP test and their limitations are specified in 40 CFR 261.24, Table 1 - Maximum Concentration of Contaminants for he Toxicity Characteristic.
- Priority pollutants are listed under the Act Section 307(a).
- The Permittee shall test for priority pollutants more frequently if required under the pretreatment program.
 - (b) Sludge Disposed of in Surface Disposal Sites (Sludge-only Landfill or Disposal on Land Not for the Purpose of Improving Plant Growth)

		Limitation (Mg/kg)						
Parameter	0<25 m	25<50 m	50<75 m	75<100 m	100<125 m	125<150 m	>150 m	Monitoring Frequency
Arsenic ¹	30	34	39	46	53	62	73	2
Chromium ¹	200	220	260	300	360	450	600	2
Nickel ¹	210	240	270	320	390	420	420	2
TCLP Test ³	3					1/Year		
Priority Pollutants ⁴		N/A					1/Year⁵	

m = Meter

- N/A = Not Applicable

 The Permittee shall monitor for this parameter only if sludge is disposed of in a unit with no liner and leachate system. Limitations are based on the distance (meters) from the active sludge unit boundary to the nearest property line.
- Monitoring frequency shall be determined by the following table:

Annual Production, Dry Weight (Metric Tons/Year)	Monitoring Frequency
0 - 290	1/Year
0 - 290	(November)
290 – 1.500	1/Quarter
290 - 1,500	(Feb/May/Aug/Dec)
1,500 – 15,000	6/Year
1,500 - 15,000	(Feb/Apr/Jun/Aug/Oct/Dec)
>15,000	1/Mon h

		Limitation (Mg/kg)						
Parameter	0<25 m	25<50 m	20<75 m	75<100 m	100<125 m	125<150 m	>150 m	Monitoring Frequency

- The parameters to be tested by the TCLP test and their limitations are specified in 40 CFR 261.24, Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic.
- Priority pollutants are listed under the CWA Section 307(a).

 The Permittee shall test for priority pollutants more frequently if required under the pretreatment program.
 - (c) Sludge that is Land-Applied (Added to Soil for the Purpose of Improving Plant Growth)

Monitoring Parameter/Test Procedures	Limitation (mg/kg)	Monitoring Frequency
Arsenic	41	1
Cadmium	39	1
Copper	1,500	1
Lead	300	1
Mercury	17	1
Molybdenum	100	1
Nickel	420	1
Selenium	100	1
Zinc	2,800	1
TCLP Test ²	2	1/Year
Priority Pollutants ³	N/A	1/Year4

mg/kg = Milligrams per kilograms N/A = Not Applicable

Monitoring frequency shall be determined by the following table:

Annual Production, Dry Weight (Metric Tons/Year)	Monitoring Frequency
0 - 290	1/Year (November)
290 – 1,500	1/Quarter (Feb/May/Aug/Dec)
1,500 – 15,000	6/Year (Feb/Apr/Jun/Aug/Oct/Dec)
>15,000	1/Month

- The parameters to be tested by the TCLP test and their limitations are specified in 40 CFR 261.24, Table 1 Maximum Concentration of Contaminants for the Toxicity Characteristic.

 Priority pollutants are listed under the CWA Section 307(a).

 The Permittee shall test for priority pollutants more frequently if required under the protections are supported.
- the pretreatment program.

- (2) The Permittee shall develop a representative sampling plan for monitoring toxics reduction, including the number and location of sampling points.
 - (a) If sludge generated at the facility is land applied or disposed at a surface disposal site, the sampling plan shall also include pathogens and vector attraction reduction monitoring.
 - (b) If pathogen reduction is determined by time and temperature, the plan shall be designed to determine temperatures throughout the batch being treated.
 - (c) If windrow composting is used, temperature shall be measured at least once for each 150 feet of windrow, and include measurements at depths of 12 to 24 inches below the surface.
- c. Requirements for Sludge Disposed of in Municipal Solid Waste Landfill
 - (1) The Permittee shall dispose sludge in municipal solid waste landfills that meet the requirements of 40 CFR 258; and HAR, Chapter 11-58.1.
 - (2) Sludge shall not contain "free liquids" as defined by EPA Method 9095B (Paint Filter Liquids Test).
- d. Requirements for Sludge Disposed of in Surface Disposal Sites (Sludgeonly Landfill or Disposal on Land Not for the Purpose of Improving Plant Growth)
 - (1) Sludge that is disposed of in a sludge-only landfill shall meet the general requirements, pollutant limits (for surface disposal sites without liners and leachate systems), management practices, and operational standards in 40 CFR 503 Subpart C and additional pollutant limits requested by the Director.
 - (2) The Permittee shall have a qualified groundwater scientist develop a groundwater monitoring program for the surface disposal site or certify that the placement of sludge on the site will not cause aquifer contamination.
- Requirements for Sludge that is Land-Applied (Added to Soil for the Purpose of Improving Plant Growth)

The Permittee shall obtain and comply with the Wastewater Management Individual Permit, issued by the DOH, Wastewater Branch.

f. Notification Requirements

- (1) If sludge other than exceptional quality sludge is shipped to another state or to Indian lands, the Permittee shall notify the permitting authorities in the receiving state or Indian land (the EPA Regional Office for that area and the State or Indian authorities) 60 calendar days prior to shipment.
- (2) The Permittee shall notify the EPA Regional Sludge Coordinator and the Director of any non-compliance that may seriously endanger public health or the environment within 24 hours after becoming aware of the non-compliance. A written non-compliance report shall be submitted, postmarked, or faxed within five (5) working days after the Permittee becomes aware of the noncompliance.
- (3) The Permittee shall report all other instances of non-compliance not reported under Part H.1.f.(2) at the time discharge monitoring reports are submitted as required by Part I.2 of this permit.

g. Annual Report

By February 19th of each year, the Permittee shall submit an annual report on sludge management activities during the previous calendar year to the EPA Regional Sludge Coordinator and the Director. The report shall provide the following information:

- (1) Total amount of sludge generated that year and a breakdown of the usage/disposal methods employed (in dry weight, metric tons).
- (2) Results of all monitoring required by Part H.1.b.
- (3) If sludge was disposed in a municipal solid waste landfill, then the Permittee shall include the following certification statement:

"I certify under the penalty of law, that the paint filter test and toxicity characteristic leaching procedure test requirements have been met, and that vector attraction reduction requirements have been met by the municipal solid waste landfill. This determination has been made under my direction and supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information used to determine

that the necessary requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

- (4) If sludge was disposed in a surface disposal site, the following information shall be included:
 - (a) Requirements specified in 40 CFR 503.27.
 - (b) Name and mailing address of surface disposal operator if different from Permittee.
 - (c) Location (street address and latitude and longitude) of surface disposal site.
 - (d) Results of groundwater monitoring, or a copy of a certification by a groundwater scientist (including the scientist's name, title, and phone number) that the placement of sludge at the surface disposal site will not cause aguifer contamination.
- (5) If sludge was land-applied, the following information shall be included:
 - (a) Requirements specified in 40 CFR 503.17(a) for all facilities preparing sludge for land application or reference to that facility's report, if submitted to EPA separately.
 - (b) Names and addresses of all facilities receiving the non-exceptional quality sludge, including land appliers and those facilities providing further treatment/blending prior to land application.
 - (c) Location of land application sites of non-exceptional quality sludge (street address, latitude and longitude) and sizes of parcels.
 - (d) Crops grown, agronomic rate for the crops grown, and certification by the land appliers of non-exceptional quality sludge that the sludge was applied at a rate not exceeding the agronomic rate determined for each crop.
 - (e) Copies of other certification statements by land appliers of non-exceptional quality sludge.
- (6) If sludge was stored, the following information shall also be included:
 - (a) Age of stored sludge.

- (b) Name and mailing address of operator of storage site if different from Permittee.
- (b) Location of stored sludge (street address, latitude and longitude).
- (7) If sludge was disposed using other methods, descriptions of the methods employed and the locations (street address, latitude and longitude) of the usage/disposal sites shall be included.
- (8) Annual reports shall be submitted to DOH through the CWB Compliance Submittal Form for Individual NPDES Permits and NGPCs. This form is accessible through the e-Permitting Portal website at: https://eha cloud.doh.hawaii.gov/epermit/View/home.aspx. You will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool to locate the form. Follow the instruction to complete and submit this form. All submissions shall include a CD or DVD containing the downloaded e-Permitting submission and a completed Transmittal Requirements and Certification Statement for e-Permitting NPDES/NGPC Compliance Submissions Form, with original signature and date.
- (9) A copy of the Annual report shall be submitted to EPA at the following address:

Regional Sludge Coordinator (WTR-5) Environmental Protection Agency, Region 9 75 Hawthorne Street San Francisco, CA 94105

Wastewater Sludge Program Manager Wastewater Branch Environmental Management Division Department of Health 919 Ala Moana Boulevard, Room 309 Honolulu, HI 96814-4920

- 2. Requirements for Receiving Sludge
 - a. Approval

Upon written request by the Permittee and approval by the Director, the Permittee may pump sludge hauled from the Permittee's other wastewater treatment plants directly to the facility's anaerobic digesters through a

sludge receiving station. The sludge receiving station shall be equipped to record the source and amount of sludge pumped to the digesters.

b. Reporting

The Permittee shall submit a monthly log reporting the sources and amounts of the sludge pumped into the digester during the calendar month. The log shall be submitted with the monthly DMRs.

c. Retraction

The Director reserves the right to retract the approval should the facility's treatment design capacity be exceeded, the effluent discharge monitoring results be in non-compliance with this permit, or the Director deems necessary.

I. REPORTING REQUIREMENTS

- 1. Schedule of Submission
 - a. Effluent and Receiving Water Monitoring Programs
 - (1) Effluent Monitoring Program

Within 30 days after the effective date of this permit, the Permittee shall submit an updated/revised Effluent Monitoring Program which complies with Part A of this permit to the Director for approval.

(2) Receiving Water Monitoring Program

Within 30 days after the effective date of this permit, the Permittee shall submit an updated/revised Receiving Water Monitoring Program which complies with Part E of this permit to the Director for approval.

- (3) The Programs(s) shall include at a minimum, but not be limited to the following:
 - (a) Sampling location map;
 - (b) Sample holding time;
 - (c) Preservation techniques;
 - (d) Test method and method detection level; and
 - (e) Quality control measures.

The DOH reserves the right to require the Permittee to revise the approved program, as appropriate, pursuant toward compliance with the terms and conditions of this permit.

Monitoring shall be conducted according to test procedures approved under 40 CFR 136 with detection limits low enough to measure the compliance with Parts A and C of this permit. For cases where the discharge limitation is below the lowest detection limit of the appropriate test procedure, the compliance shall be based upon the lowest detection limit of the method.

If a test method has not been promulgated for a particular constituent, the Permittee may use any suitable method for measuring the level of the constituent in the discharge provided the Permittee submit a description of the method or a reference to a published method.

- 2. Transmittal and Monitoring Results Reporting Requirements
 - a. Certification of Transmittals

Submit all information in accordance with HAR, Section 11-55-07(b), with the following certification statement by an appropriate signatory:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

b. Include "NPDES Permit No. HI 0020877" on each transmittal.

Failure to provide the assigned permit number for this facility on future correspondence or transmittals may be a basis for delay of the processing of the document(s).

- c. Reporting of Discharge and Monitoring Results
 - (1) All wastewater monitoring, and biosolids/sludge monitoring, sample preservation, and analyses shall be performed as described in the most recent edition of 40 CFR 136, unless otherwise specified in this permit. All receiving water monitoring, sample preservation, and analyses shall be performed as specified in this permit.
 - (2) In accordance with 40 CFR 122.45(c), effluent analyses for metals shall be reported as total recoverable.
 - (3) Monitoring results shall be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1). The results of all monitoring required by this permit shall be submitted in a format which allows direct comparison with the limitations in Part A and other requirements of this permit.
 - (4) For the purposes of reporting, the Permittee shall use the reporting threshold equivalent to the laboratory's method detection limit (MDL).

As such, the Permittee must conduct influent and effluent analyses in accordance with the method specified Appendix 1 of this permit and must utilize a standard calibration where the lowest standard point is equal to or less than the concentration of the minimum level (ML).

- (a) The MDL is defined as the minimum concentration of an analyte that can be detected with 99% confidence.
- (b) The ML is defined as the concentration in a sample equivalent to the concentration of the lowest calibration standard analyzed in a specific analytical procedure, assuming that all the method-specific sample weights, volumes, and processing steps have been followed. Where a promulgated ML is not available, an interim ML is calculated using a factor of 3.18 times the MDL.

Analytical results at or above the laboratory's MDL shall be reported on DMRs as the measured concentration. For analytical results between the MDL and the ML, the Permittee shall report in the comment section on the DMR the sigma (σ) value (determined by the laboratory during the MDL study). Analytical results below the laboratory's MDL shall be reported as zero (i.e., "0").

- (5) Should there be no discharges during the monitoring period, the DMR form shall so state.
- (6) All influent, effluent, and receiving water data shall be submitted annually to EPA's STOrage and Retrieval Date Warehouse (STORET) in accordance with Water Quality Exchange (WQX) specifications (or equivalent data base/submission guidelines, as directed by the EPA).

Receiving water data shall be submitted electronically, as directed by EPA, to the following address:

U.S. Environmental Protection Agency Monitoring and Assessment Office, WTR-2 75 Hawthorn Street San Francisco, CA 94105

d. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant at location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 40 CFR 136, the results of such monitoring shall

be included in the calculation and reporting of the values required in the DMR form. The increased frequency shall also be indicated.

e. Submittal of Monitoring Results Using NetDMR

The Permittee shall submit DMRs required under this permit electronically using NetDMR. NetDMR is accessed from: http://www.epa.gov/netdmr.

DMRs shall be submitted electronically no later than the 15th day of the month following the completed reporting period. Once a Permittee begins submitting DMRs using NetDMR, it will no longer be required to submit hard copies of DMRs to the Director, unless otherwise requested by the Director.

f. Schedule of Submission

 The Permittee shall submit reports to the Director and CWA Compliance Office (WTR-7) as specified below.

Report	Reporting Period	Report Due Date
Discharge Monitoring Report	1/Month	15 th day of the month following completed reporting period
SIU Compliance Status Report	2/Year	July 31 and December 31 of each year
Sludge/Biosolids Annual Report	1/Year	February 19 of each year
Pretreatment Annual Report	1/Year	March 31 of each year
Receiving Water Monitoring Report	1/Year	March 31 of each year
Wastewater Pollution Prevention Program Annual Report	1/Year	March 31 of each year
Initial Investigation TRE Workplan	1/Permit Term	90 days after permit effective date
ZOM Dilution Analysis Study Work Plan	1/Permit Term	180 days after permit effective date
ZOM Dilution Analysis Study Report	1/Permit Term	3 years after permit effective date

Signed copies of monitoring and all other reports required by this permit, except those described in Part I.2.f.(2) of this permit, shall be submitted to the Director through the CWB Compliance Submittal Form for Individual NPDES Permits and NGPCs. This form is accessible through the e-Permitting Portal website at:

https://eha-cloud.doh.hawaii.gov/epermit/View/home.aspx. If not already registered, you will be asked to do a one-time registration to obtain your login and password. After you register, click on the

Application Finder tool to locate the form. Follow the instruction to complete and submit this form. All submissions shall include a CD or DVD containing the downloaded e-Permitting submission and a completed Transmittal Requirements and Certification Statement for e-Permitting NPDES/NGPC Compliance Submissions Form, with original signature and date.

Duplicate copies of the annual pretreatment and sludge reports shall be submitted to the Regional Administrator as specified in Parts G and H of this permit.

(2) The Permittee shall submit reports to the Director and the EPA Region 9 Water Division's Monitoring and Assessment Office (WTR-2) as specified below.

Report	Reporting Period	Report Due Date
Shoreline Water Quality Monitoring	1/Month	28th day of the month following completed reporting period
Offshore Water Quality Monitoring	1/Quarter	90 th day following completed reporting period
Offshore Sediment (chemistry and benthic organisms)	1/Year	March 31 of each year
Fish Monitoring	1/Year	March 31 of each year
Receiving Water data entry into STORET	1/Year	March 31 of each year

Receiving water data shall be submitted electronically to the Regional Administrator at the following address:

Regional Administrator
U.S. Environmental Protection Agency
Region 9
Water Division
Monitoring and Assessment Office, WTR-2
75 Hawthorne Street
San Francisco, CA 94105

3. Reporting of Noncompliance, Unanticipated Bypass, or Upset

The following requirements replace the 24-hour notice requirements for bypasses (Standard NPDES Conditions Section 17(d)(2)(B) and 40 CFR Section 122.41(1)(6)(ii)(A)) and upsets (Standard NPDES Conditions Section 18(c)(3) and 40 CFR Section 122.41(1)(6)(ii)(B)).

a. Immediate Reporting

- (1) In the event of a bypass, upset, or sewage spill resulting in or contributing to a discharge to State waters, the Permittee shall orally notify the DOH at the time the Permittee's authorized personnel become aware of the circumstances, but no later than 24 hours after the event.
- (2) In the event of a bypass, upset, or sewage spill resulting in or contributing to a discharge of 1,000 gallons or more to State waters, the Permittee shall orally notify the DOH and the AP news wire services at the time the Permittee's authorized personnel become aware of the circumstances, but no later than 24 hours after the event.
- (3) In the event of an exceedance of a daily maximum discharge limitation, if any exist, the Permittee shall orally notify the DOH within 24 hours of the time the Permittee's authorized personnel becomes aware of the circumstances.

b. Contact for Oral Reports

- (1) The Permittee shall make oral reports during regular office hours (7:45 a.m. to 4:30 p.m.) to the DOH, Clean Water Branch (CWB) at 586-4309.
- (2) The Permittee shall make oral reports outside of regular office hours to the State-On-Scene Coordinator (SOSC) from the Office of Hazard Evaluation and Emergency Response (HEER) at 226-3799, or to the State Hospital Operator at 247-2191.

c. Written Submission

- (1) For those non-compliances requiring immediate reporting, the Permittee shall submit a written non-compliance report. The Permittee shall submit the report to the DOH, CWB, in accordance with Part I.1.f.(1) within five (5) working days after the Permittee's authorized personnel becomes aware of the noncompliance.
- (2) The report shall contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times; if the non-compliance has not been corrected, the anticipated time it is expected to continue; public notice efforts, if any; clean-up efforts, if

Commented [DC12]: Not sure what address you all want here.

any; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the non-compliance.

(3) The Director may waive the written report or the five (5) working day deadline on a case-by-case basis for spills, bypasses, upsets, and violations of daily maximum discharge limitations if the oral report has been received within 24 hours of the non-compliance or when the Permittee's authorized personnel becomes aware of the non-compliance.

d. Other Non-Compliance

The Permittee shall report all other instances of non-compliance not reported under Part I.3.a at the time DMRs are submitted as required by Part I.2 of this permit. The non-compliance reports shall contain the information requested in Part I.3.c.(2) of this permit.

3. Other Reporting Requirements

The Permittee shall comply with the reporting requirements of 40 CFR 122.41(I)(1) through 122.41(I)(5), and 122.41(I)(8) as incorporated by Standard NPDES Permit Conditions, Section 16. Parts I.1 and I.2 of this permit supersede the requirements of 40 CFR 122.41(I)(6) and 122.41(I)(7).

4. Planned Changes

Any planned physical alterations or additions to the permitted facility, not covered by Standard Condition 16.a.(1), (2) or (3) shall be reported to the Director on a quarterly basis.

5. Types of Sample

- a. "Grab sample" means an individual sample collected at a randomly-selected time over a period not exceeding fifteen (15) minutes.
- b. "Composite sample" means a combination of at least eight (8) sample aliquots, collected at periodic intervals during the operating hours of the facility over a 24-hour period. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

J. SPECIAL CONDITIONS

- Wastewater treatment facilities subject to this permit shall be supervised and operated by persons possessing certificates of appropriate grade, as determined by the DOH. If such personnel are not available to staff the wastewater treatment facilities, a program to promote such certification shall be developed and enacted by the Permittee. Activities of this program shall be reported in the Annual Report in Part F of this permit.
- 2. The Permittee shall maintain in good working order a sufficient alternate power source for operating the wastewater treatment and disposal facilities. All equipment shall be located to minimize failure due to moisture, liquid spray, flooding, and other physical phenomena. The alternate power source shall be designed to permit inspection and maintenance and shall provide for periodic testing. If such alternate power source is not in existence, the Permittee shall halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power.
- 3. This permit may be reopened and modified, in accordance with NPDES regulations at 40 CFR 122 and 124, as necessary, to include additional conditions or limitations based on newly available information.

K. LOCATION AND ZOM, ZID, AND RECEIVING WATER STATION MAPS

(See Figures 1 and 2)

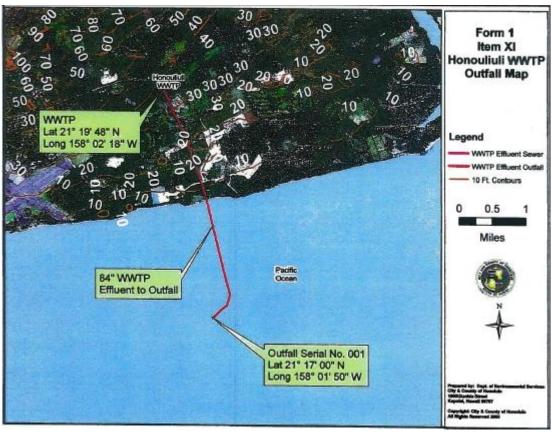


Figure 1 – Location Map

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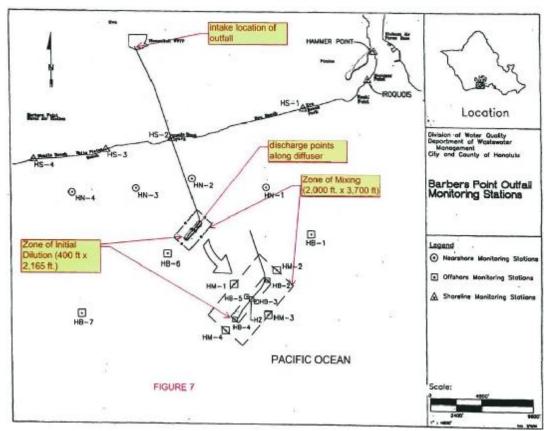


Figure 2 – Zone of Mixing (ZOM), Zone of Initial Dilution (ZID), and Receiving Water Monitoring Locations

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APPENDIX 1 – MONITORING METHODS

Discharge Parameter	Sample Type ¹	Analytical Method
Metals		1
Antimony	24-Hour Composite	As specified in 40 CFR 136
Arsenic	24-Hour Composite	As specified in 40 CFR 136
Beryllium	24-Hour Composite	As specified in 40 CFR 136
Cadmium	24-Hour Composite	As specified in 40 CFR 136
Chromium	24-Hour Composite	As specified in 40 CFR 136
Copper	24-Hour Composite	As specified in 40 CFR 136
Lead	24-Hour Composite	As specified in 40 CFR 136
Mercury	24-Hour Composite	As specified in 40 CFR 136
Nickel	24-Hour Composite	As specified in 40 CFR 136
Selenium	24-Hour Composite	As specified in 40 CFR 136
Silver	24-Hour Composite	As specified in 40 CFR 136
Thallium	24-Hour Composite	As specified in 40 CFR 136
Zinc	24-Hour Composite	As specified in 40 CFR 136
Pesticides		1
Aldrin	24-Hour Composite	As specified in 40 CFR 136
Chlordane	24-Hour Composite	As specified in 40 CFR 136
Dieldrin	24-Hour Composite	As specified in 40 CFR 136
4,4'-DDT	24-Hour Composite	As specified in 40 CFR 136
4,4'-DDE	24-Hour Composite	As specified in 40 CFR 136
4.4'-DDD	24-Hour Composite	As specified in 40 CFR 136
Alpha-Endosulfan	24-Hour Composite	As specified in 40 CFR 136
Beta Endosulfan	24-Hour Composite	As specified in 40 CFR 136
Endosulfan Sulfate	24-Hour Composite	As specified in 40 CFR 136
Endrin	24-Hour Composite	As specified in 40 CFR 136
Endrin Aldehyde	24-Hour Composite	As specified in 40 CFR 136
Heptachlor	24-Hour Composite	As specified in 40 CFR 136
Heptachlor Epoxide	24-Hour Composite	As specified in 40 CFR 136
Alpha BHC	24-Hour Composite	As specified in 40 CFR 136
Beta BHC	24-Hour Composite	As specified in 40 CFR 136
Delta BHC	24-Hour Composite	As specified in 40 CFR 136
Gamma BHC (Lindane)	24-Hour Composite	As specified in 40 CFR 136
Toxaphene	24-Hour Composite	As specified in 40 CFR 136
PCB 1016	24-Hour Composite	As specified in 40 CFR 136
PCB 1221	24-Hour Composite	As specified in 40 CFR 136
PCB 1232	24-Hour Composite	As specified in 40 CFR 136
PCB 1242	24-Hour Composite	As specified in 40 CFR 136
PCB 1248	24-Hour Composite	As specified in 40 CFR 136
PCB 1254	24-Hour Composite	As specified in 40 CFR 136
PCB 1260	24-Hour Composite	As specified in 40 CFR 136
Base/Neutral Extractables	2111our Composito	7.6 opecined in 16 cm (1700
Acenaphthene	24-Hour Composite	As specified in 40 CFR 136
Acenaphthylene	24-Hour Composite	As specified in 40 CFR 136
Anthracene	24-Hour Composite	As specified in 40 CFR 136
Benzidine	24-Hour Composite	As specified in 40 CFR 136
Benzo(a)Anthracene	24-Hour Composite	As specified in 40 CFR 136
Benzo(a)Pyrene	24-Hour Composite	As specified in 40 CFR 136
Benzo(b)Fluoranthene	24-Hour Composite	As specified in 40 CFR 136
Benzo(g,h,i)Perylene	24-Hour Composite	As specified in 40 CFR 136
Denzo(g,II,I)F er yierie	2+311001 Composite	To sherillen ill 40 Cl.K 190

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Discharge Parameter	Sample Type ¹	Analytical Method
Benzo(k)Fluoranthene	24-Hour Composite	As specified in 40 CFR 136
Bis(2-	24-Hour Composite	As specified in 40 CFR 136
Chloroethoxy)Methane	•	•
Bis(2-Chloroethyl)Ether	24-Hour Composite	As specified in 40 CFR 136
Bis(2-Chloroisopropyl)Ether	24-Hour Composite	As specified in 40 CFR 136
Bis(2-Ethylhexyl)Phthalate	24-Hour Composite	As specified in 40 CFR 136
4-Bromophenyl Phenyl Ether	24-Hour Composite	As specified in 40 CFR 136
Butyl Benzyl Phthalate	24-Hour Composite	As specified in 40 CFR 136
2-Chloronaphthalene	24-Hour Composite	As specified in 40 CFR 136
Chrysene	24-Hour Composite	As specified in 40 CFR 136
Dibenzo(a,h)Anthracene	24-Hour Composite	As specified in 40 CFR 136
4-Chlorophenyl Phenyl Ether	24-Hour Composite	As specified in 40 CFR 136
1,2-Dichlorobenzene	24-Hour Composite	As specified in 40 CFR 136
1,3-Dichlorobenzene	24-Hour Composite	As specified in 40 CFR 136
1,4-Dichlorobenzene	24-Hour Composite	As specified in 40 CFR 136
3,3-Dichlorobenzidine	24-Hour Composite	As specified in 40 CFR 136
Diethyl Phthalate	24-Hour Composite	As specified in 40 CFR 136
Dimethyl Phthalate	24-Hour Composite	As specified in 40 CFR 136
Di-N-Butyl Phthalate	24-Hour Composite	As specified in 40 CFR 136
2,4-Dinitrotoluene	24-Hour Composite	As specified in 40 CFR 136
2,6-Dinitrotoluene	24-Hour Composite	As specified in 40 CFR 136
1,2-Diphenylhydrazine	04 Harris Camanasita	As specified in 40 CFR 136
(as Azobenzene)	24-Hour Composite	
Di-N-Octyl Phthalate	24-Hour Composite	As specified in 40 CFR 136
Fluoranthene	24-Hour Composite	As specified in 40 CFR 136
Fluorene	24-Hour Composite	As specified in 40 CFR 136
Hexachlorobenzene	24-Hour Composite	As specified in 40 CFR 136
Hexachlorobutadiene	24-Hour Composite	As specified in 40 CFR 136
Hexachlorocyclopentadiene	24-Hour Composite	As specified in 40 CFR 136
Hexachloroethane	24-Hour Composite	As specified in 40 CFR 136
Indeno(1,2,3-cd)Pyrene	24-Hour Composite	As specified in 40 CFR 136
Isophorone	24-Hour Composite	As specified in 40 CFR 136
Naphthalene	24-Hour Composite	As specified in 40 CFR 136
Nitrobenzene	24-Hour Composite	As specified in 40 CFR 136
N-Nitrosodimethylamine	24-Hour Composite	As specified in 40 CFR 136
N-Nitrosodi-N-Propylamine	24-Hour Composite	As specified in 40 CFR 136
N-Nitrosodiphenylamine	24-Hour Composite	As specified in 40 CFR 136
Phenanthrene	24-Hour Composite	As specified in 40 CFR 136
Pyrene	24-Hour Composite	As specified in 40 CFR 136
1,2,4-Trichlorobenzene	24-Hour Composite	As specified in 40 CFR 136
Acid Extractables		T
2-Chlorophenol	24-Hour Composite	As specified in 40 CFR 136
2,4-Dichlorophenol	24-Hour Composite	As specified in 40 CFR 136
2,4-Dimethylphenol	24-Hour Composite	As specified in 40 CFR 136
4,6-Dintro-O-Cresol	24-Hour Composite	As specified in 40 CFR 136
2,4-Dinitrophenol	24-Hour Composite	As specified in 40 CFR 136
2-Nitrophenol	24-Hour Composite	As specified in 40 CFR 136
4-Nitrophenol	24-Hour Composite	As specified in 40 CFR 136
P-Chloro-M-Cresol	24-Hour Composite	As specified in 40 CFR 136

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Discharge Parameter	Sample Type ¹	Analytical Method
Pentachlorophenol	24-Hour Composite	As specified in 40 CFR 136
Phenol	24-Hour Composite	As specified in 40 CFR 136
2,4,6-Trichlorophenol	24-Hour Composite	As specified in 40 CFR 136
Volatile Organics		
Acrolein	Grab	As specified in 40 CFR 136
Acrylonitrile	Grab	As specified in 40 CFR 136
Benzene	Grab	As specified in 40 CFR 136
Bromoform	Grab	As specified in 40 CFR 136
Carbon Tetrachloride	Grab	As specified in 40 CFR 136
Chlorobenzene	Grab	As specified in 40 CFR 136
Chlorodibromomethane	Grab	As specified in 40 CFR 136
Chloroethane	Grab	As specified in 40 CFR 136
2-Chloroethyl Vinyl Ether	Grab	As specified in 40 CFR 136
hloroform	Grab	As specified in 40 CFR 136
Dichlorobromomethane	Grab	As specified in 40 CFR 136
1,1-Dichloroethane	Grab	As specified in 40 CFR 136
1,2-Dichloroethane	Grab	As specified in 40 CFR 136
1,1-Dichloroethylene	Grab	As specified in 40 CFR 136
1,2-Dichloropropane	Grab	As specified in 40 CFR 136
1,3-Dichloropropylene	Grab	As specified in 40 CFR 136
Ethylbenzene	Grab	As specified in 40 CFR 136
Methyl Bromide	Grab	As specified in 40 CFR 136
Methyl Chloride	Grab	As specified in 40 CFR 136
1,1,2,2-Tetrachloroethane	Grab	As specified in 40 CFR 136
Tetrachloroethylene	Grab	As specified in 40 CFR 136
Toluene	Grab	As specified in 40 CFR 136
1,2-Trans-Dichloroethylene	Grab	As specified in 40 CFR 136
1,1,1-Trichloroethane	Grab	As specified in 40 CFR 136
1,1,2-Trichloroethane	Grab	As specified in 40 CFR 136
Trichloroethylene	Grab	As specified in 40 CFR 136
Vinyl Chloride	Grab	As specified in 40 CFR 136
Miscellaneous		
Cyanide	Grab	As specified in 40 CFR 136
Asbestos		
(Not required unless	24-Hour Composite	As specified in 40 CFR 136
required)	·	
2,3,7,8-		
Tetrachlorodibenzon-P-	24-Hour Composite	As specified in 40 CFR 136
Dioxin (TCDD)		
301(h) Pesticides		
Demeton	24-Hour Composite	As specified in 40 CFR 136
Guthion	24-Hour Composite	As specified in 40 CFR 136
Parathion	24-Hour Composite	As specified in 40 CFR 136
Malathion	24-Hour Composite	As specified in 40 CFR 136
Mirex	24-Hour Composite	As specified in 40 CFR 136
Methoxychlor	24-Hour Composite	As specified in 40 CFR 136

¹ Unless otherwise specified within the permit.